

Work Order ID 145158

Tuesday, May 03, 2016 2:02:32 PM

145158

Page 1

Item ID: D5321-3

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Ring

Start Date: 5/6/2016 Start Qty: 60.00

60

Cust Item ID:

Required Date: 5/18/2016 Req'd Qty: 60.00

60

Customer:

Reference:

Approvals:

Process Plan: MLS

Date: MAY 03 2016 Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
D5321	B

100

0.00

100

Purchasing

Purchasing

Memo

Issue P/O: 32258
Possible supplier: ANCRA
Supplier P/N: 48557-11

C of C is required.

0.00

60

MAY 05 2016

DAS
13
9-59

110

Receive & Inspect for Damage & Mat'l Certs

0.00

110

Packaging

Packaging

Memo

0.00

60x SP16-0512

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause				FAULT CATEGORY					
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐				Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
OTHER : ☐									

Work Order ID 145158

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145158

Page 2

Item ID: D5321-3

Accept

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60

Cust Item ID:

Required Date: 5/18/2016 Req'd Qty: 60.00

60

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC6- Inspect dimensions to drawing	0.00							DAS 38 9-89
120									
QC	Memo	0.00							
Quality Control									MAY 13 2016
130	Identify as per dwg & Stock Location: <u>5H62</u>	0.00							
130									MAY 13 2016
Packaging	Memo	0.00							
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									MAY 17 2016

MAY 16 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework Scrap Use-as-is Suspected Unapproved		AGAINST DEPARTMENT/PROCESS Skid-tube Machining Thermoforming Large Fab Cross tube Small Fab Finishing Composite Water Jet Prod. Eng. Coord. Rec/Store/Packaging Supplier Engineering Quality Other					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment Design Doc/Data Equip/Tooling Handling/Pre Material Internal Transport Tribal Knowledge LOA Substation Past Expiry Date Misidentified No Re-verification Operator Offset/Setup Supplier Training Use for Testing Poor Information Rushing Product Improvement Process Improvement Manufacturing Process Past Due		FAULT CATEGORY Pressure/Forced Bending Centre Not Concentric Cracks Crimp/Kink/Ripple/Wave Cuffs Crushing Heat Treat Wave/Twist in Tube Marks/Chatter Temperature/Cure Set-up BOM/Route Broken/Damage/Defect Inspection Incomplete/Unqualified Contamination Countersink Cut Too Short Instructions Incomplete/Unclear Drill Holes Power Loss/Surge Folio/Program Grain Weld Wrong Stock Pulled Out of Sequence Off-set Mislabeled Fit/Function Misaligned/off center Positioned Wrong Outside Dimensions Over/Under tolerance Part Incorrect Part Lost/Missing Part Moved Drawing Finish Misread Turning Sequence							
		OTHER :							

Picklist Print

Tuesday, May 03, 2016 2:02:37 PM

Page 1

Work Order ID: 145158

145158

Parent Item: D5321-3

D5321-3

Parent Item Name: Ring

Start Date: 5/6/2016

Required Date: 5/18/2016

Start Qty: 60.00

Required Qty: 60.00

Comments: IPP REV:A 15.10.13 NEW ISSUE DD VERF:JLM IPP
REV:B 16.03.28 AS PER DWG REV.B DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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48557-11		Purchased	No				Each	0.0000		60			
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48557-11

Ring

60x 5/16-0512

DQA: _____ Date: _____



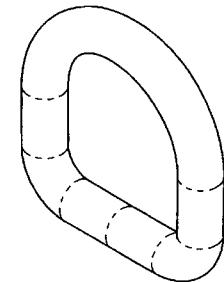
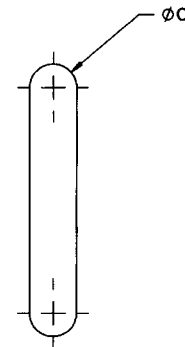
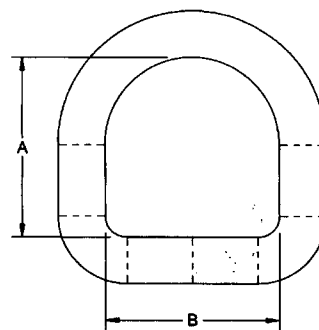
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : _____							

SPECIFICATION CONTROL DRAWING



D5321-X RING

PART NUMBER	VENDOR	VENDOR P/N	BREAK STRENGTH	WORKING LOAD LIMIT	WEIGHT	DIM 'A'	DIM 'B'	DIM 'C'	MATERIAL
D5321-1	U.S.C.C.	MR15	6,000 lbs	2,000 lbs	0.22 lbs	1.50	1.45	0.39	ZINC PLATED STEEL
D5321-3	ANCRA	48567-11	5,000 lbs	1,666 lbs	0.09 lbs	1.50	1.50	0.25	CAD PLATED STEEL
D5321-5	MCMaster-CARR	9372T21	600 lbs	200 lbs	0.05 lbs	0.81	1.06	0.22	NICKEL PLATED STEEL



NOTES:

- 1) MATERIAL: SEE TABLE
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.7
- 7) WEIGHT: SEE TABLE

B	ADD D5321-5	DB	16.02.08
A	NEW RELEASE	DB	15.09.30
REV.	DESCRIPTION	BY	DATE
DESIGN	DB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AK		
CHECKED	ML	DRAWING NO.	REV. B
MFG. APPR.	DD	D5321	SHEET 1 OF 1
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	RING	NTS
DATE	16.02.08	COPYRIGHT © 2015 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

RELEASED
2016-03-23
16-548

APPROVED



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO32258**

Purchase Order Date 5/5/2016

PO Print Date 5/5/2016

Page Number 1 of 1

Order From :

VU-ANC001

Ship To : DART AEROSPACE LTD

ANCRA INTERNATIONAL, LLC
25591 NETWORK PLACE
CHICAGO, IL 60673-1255
US

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED
MAY 05 2016

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via: FedEx Economy collect

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
	Line Comments		Promise Date				
	Delivery Comments						
1	48557-11	Ring	5/12/2016 Yes 5/12/2016	FN	60.00 Each	\$6.95	\$417.00
	AS PER DWG D5321 REV. B B145158						
						Line Total:	\$417.00
2	71401-45	PROCUREMENT QUALITY CLAUSES	5/12/2016 No 5/12/2016		1.00	\$0.00	\$0.00
	Procurement Quality Clauses A005 RIGHT OF ENTRY A016 PERSONNEL QUALIFICATION A026 CERTIFICATION OF MATERIAL CONFORMANCE A040 NOTIFICATION OF QUALITY ESCAPE A042 DART NOTIFICATION BY SUPPLIER A043 RETENTION OF QUALITY DOCUMENTS						

Line Total: \$0.00

PO Total: \$417.00

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 5/5/2016



Phone: (310) 973-5000 • FAX: (310) 973-1138

**Customer
Order**

P032258

Order
Date

05-05-16

Page

1

Bill To: 100312
DART AEROSPACE LTD
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Canada

Contact : CHANTAL LAVOIE

Freight Terms :

hip from: W ANCRA WEST AZUSA

rd	Ent By:	avillalobos	Sell	Sell Qty	To Stk	Bin	Stock Qty	Shipped
n	Item	Description	UM	Ship...	UM	Loc	To Ship	Qty/UM
o	Number							
1	48557-11	Facility W :D-RING- 1 1/2"	EA	60	EA	R-28	60	60
		Cust PN: 71900-90						
		Rev. Level: G						
		** Special Instructions **						

		SHIP VIA FEDEX ECONOMY ACC. 151-793-240						
		Allocated: 05-09-16						
		Printed: 05-09-16 08:04:11						



ANCRA
INTERNATIONAL LLC

875 West 8th Street
Azusa, California 91702

Phone: (310) 973-5000 • FAX: (310) 973-1138

Shipping List Number 803638-1

Customer
Order

P032258

Order
Date

05-05-16

Page

2

Ship To: 100312
DART AEROSPACE LTD
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Canada

Bill To: 100312
DART AEROSPACE LTD
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Canada

Contact : CHANTAL LAVOIE

Ship from: W ANCRA WEST AZUSA

Freight Terms :

rd Ent By: avillalobos

Item Number	Description	Sell UM	Sell QtySh.....	To StkUM	Bin Loc	Stock Qty To Ship	Shipped Qty/UM
----------------	-------------	------------	--------------------------	-------------------	------------	----------------------	-------------------

CERTIFICATE OF CONFORMANCE

WE HEREBY CERTIFY THAT THE ABOVE STATED PART NUMBERS REPRESENTED ARE NEW AND HAVE BEEN MANUFACTURED AND INSPECTED IN ACCORDANCE WITH OUR QUALITY ASSURANCE MANUAL, ALL RELEVANT DRAWINGS, SPECIFICATIONS, PURCHASE ORDER REQUIREMENTS, AND LEGIBLY MARKED IN ACCORDANCE WITH FAR 45.15, IF APPLICABLE.

ALL CHEMICAL, PHYSICAL OR FUNCTIONAL TEST REPORTS RELEVANT TO THE CERTIFICATION OF CONFORMANCE ARE ON FILE IN OUR QUALITY ASSURANCE OFFICE.

INSPECTOR _____

DATE 5/9/16

Shortage Claim Policy

Ancra customer is responsible for inspecting incoming shipments. Ancra must be notified within fifteen(15) days of receipt of shipment if material is not as ordered, quantity is either surplus or short, or if any damage has occurred in shipment. No claims submitted to Ancra will be accepted after fifteen(15) days of receipt.

Pay
Terms

NET 30